



Travelling Wave Dipole

02-00181 | 0.25-1kW 3-30MHz

Data Sheet

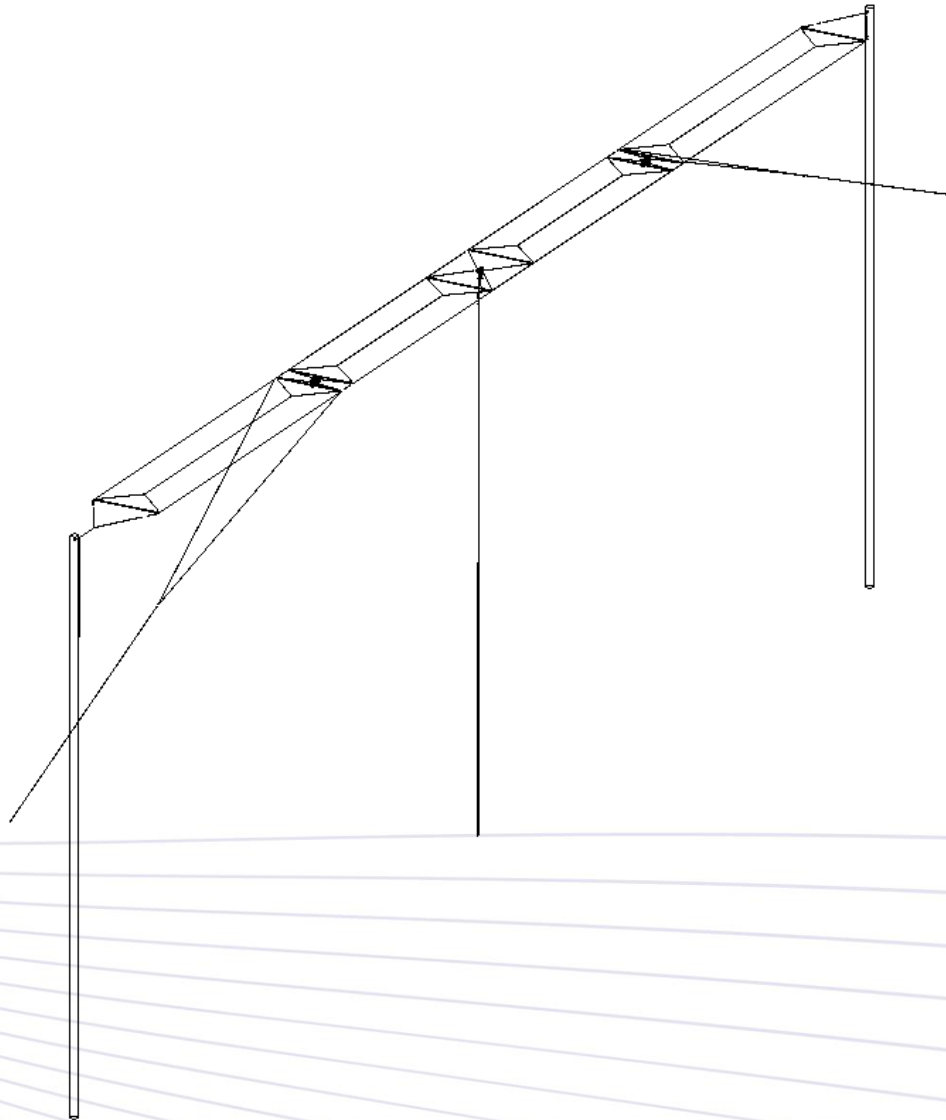


Figure 1 – 02-00181 Installed Antenna

The Lencom® 02-00181 travelling wave dipole antenna is designed for medium to long range communications over the entire high frequency band. The antenna is supported at each end by a 15m mast and fed through a central balun.

Loads in the centre of each dipole arm help to simulate a much longer dipole and allows for the travelling wave effect.

The RF connection uses an N-type socket mounted on the bottom of the balun housing.

This antenna is supplied complete but does not include a mast or anchors.

Lencom can supply masts suitable for the 02-00181.

Key Characteristics

<i>Frequency range</i>	3-30MHz
<i>Power rating</i>	0.25 - 1kW average
<i>Input impedance</i>	50Ω
<i>VSWR over range</i>	<2.5:1 (typical)
<i>Isotropic gain (maximum)</i>	9dbi
<i>Radiation pattern</i>	Omnidirectional
<i>Polarisation</i>	Horizontal
<i>RF connector type</i>	N-type
<i>Wind rating</i>	220km/h (no ice)
<i>Space requirement</i>	40m between masts
<i>Mast requirement</i>	15m

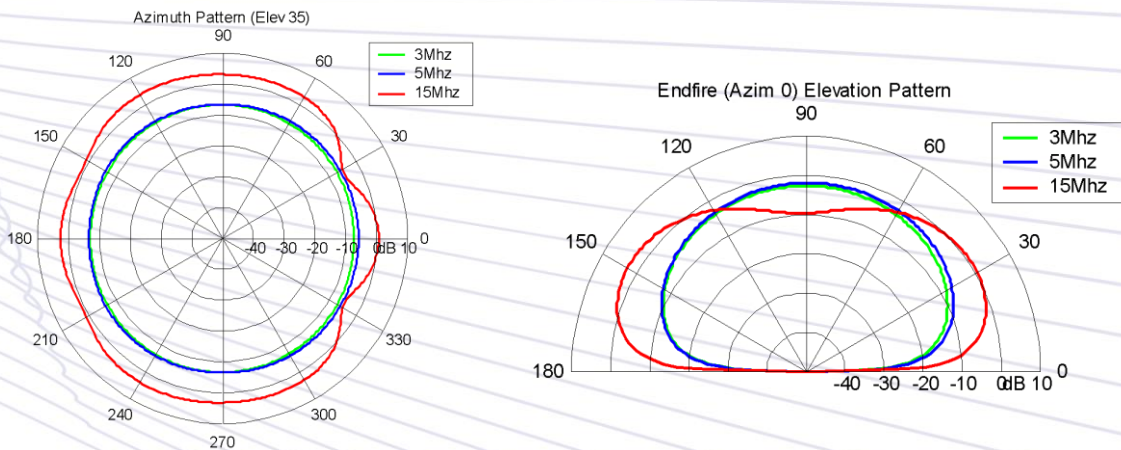


Figure 2 – Radiation Patterns
 Modelled above perfect earth; Azimuth slice taken at an elevation of 35degrees from horizon;
 Elevation slice taken at an azimuth angle of 90degrees from broadside

Specifications subject to change without notice